



SEQUENCE LISTING

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HATHAWAY, DAVID R.

<120> METHODS AND COMPOSITIONS FOR TREATING POLYCYSTIC OVARY SYNDROME

<130> 18528.636

<140> 10/629,649

<141> 2003-07-30

<150> 10/317,126

<151> 2002-12-11

<150> PCT/US03/01109

<151> 2003-01-14

<150> 60/350,395

<151> 2002-01-22

<160> 225

<170> PatentIn version 3.2

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<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Mammalian GLP peptide

<400> 1

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val
1 5 10 15

Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu
20 25 30

Val Lys Gly Arg Gly
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<210> 2

<211> 36

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Mammalian GLP peptide

<220>

<223> C-term amidated

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His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val
1 5 10 15

Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu
20 25 30

Val Lys Gly Arg
35

<210> 3

<211> 31

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Mammalian GLP peptide

<400> 3

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
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<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Mammalian GLP peptide

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<223> C-term amidated

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His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
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<210> 5

<211> 29

<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Truncated form of GLP-1

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Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln Ala
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Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
20 25

<210> 6

<211> 28

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Truncated form of GLP-1

<220>

<223> C-term amidated

<400> 6

Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln Ala
1 5 10 15

Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
20 25

<210> 7

<211> 39

<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Exendin 3

<220>

<223> C-term amidated

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His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 8

<211> 31
<212> PRT
<213> Unknown

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<223> Description of Unknown Organism: Exendin 4 (9-39) (NH2)

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<223> C-term amidated

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Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu
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Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser
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<210> 9

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<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Exendin 4

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<223> C-term amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
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<211> 38

<212> PRT

<213> Unknown

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<223> Description of Unknown Organism: Helospectin I

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His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
1 5 10 15

Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
20 25 30

Pro Arg Pro Pro Ser Ser
35

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<213> Unknown

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<223> Description of Unknown Organism: Helospectin II

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His Ser Asp Ala Thr Phe Thr Ala Glu Tyr Ser Lys Leu Leu Ala Lys
1 5 10 15

Leu Ala Leu Gln Lys Tyr Leu Glu Ser Ile Leu Gly Ser Ser Thr Ser
20 25 30

Pro Arg Pro Pro Ser
35

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<213> Unknown

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<223> Description of Unknown Organism: Helodermin

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<223> C-term amidated

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His Ser Asp Ala Ile Phe Thr Glu Glu Tyr Ser Lys Leu Leu Ala Lys
1 5 10 15

Leu Ala Leu Gln Lys Tyr Leu Ala Ser Ile Leu Gly Ser Arg Thr Ser
20 25 30

Pro Pro Pro
35

<210> 13
<211> 35
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: Q8, Q9 heliodermin

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<223> C-term amidated

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His Ser Asp Ala Ile Phe Thr Gln Gln Tyr Ser Lys Leu Leu Ala Lys
1 5 10 15

Leu Ala Leu Gln Lys Tyr Leu Ala Ser Ile Leu Gly Ser Arg Thr Ser
20 25 30

Pro Pro Pro
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<223> Description of Artificial Sequence: Truncated
form of exendin-4

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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
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<213> Artificial sequence

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of Exendin-4

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<223> C-term amidated

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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
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of Exendin-4

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<223> C-term amidated

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1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 17

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<212> PRT

<213> Artificial sequence

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of exendin-4

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<223> C-term amidated

<400> 17

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
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<210> 18

<211> 28

<212> PRT

<213> Artificial sequence

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<223> Description of Artificial Sequence: Truncated form of 14-leu,
25-Phe exendin-4

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<223> C-term amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

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Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
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<210> 19
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: 14-Leu, 22-Ala, 25-Phe
 form of exendin-4(1-28)

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 <223> C-term amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
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<210> 20
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 <223> Ser, Gly, Ala or Thr

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 <223> Ala, Asp, or Glu

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 <223> Ala or Thr

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 <223> Asp or Glu

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or Met

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 <223> Gly or not present

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 <223> Ala or not present

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 N-alkylalanine, or not present

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 <222> (37)
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 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

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 <222> (38)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

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 <223> May be c-term amidated

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 1 5 10 15
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa
 35

<210> 21
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or Met

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 N-alkylalanine, or not present

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 N-alkylalanine, or not present

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 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

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 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 22
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<220>
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 <223> Gly or Ala

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N-methylalalanine, or not present

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N-methylalalanine, or not present

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<223> May be c-term amidated

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1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa
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N-methylalalanine, or not present

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<221> MOD_RES

<222> (37)

<223> Pro, homoproline, thioproline,
N-methylalalanine, or not present

<220>

<221> MOD_RES

<222> (38)

<223> Pro, homoproline, thioproline,
N-methylalalanine, or not present

<220>

<221> MOD_RES

<222> (39)

<223> Ser or not present

<220>

<223> May be c-term amidated

<400> 23

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35

<210> 24

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)

<223> His, Arg, or Tyr

<220>

<221> MOD_RES

<222> (2)

<223> Ser, Gly, Ala, or Thr

<220>

<221> MOD_RES

<222> (3)

<223> Ala, Asp, or Glu

<220>

<221> MOD_RES

<222> (5)

<223> Ala or Thr

<220>

<221> MOD_RES

<222> (6)

<223> Ala, Phe, Tyr, or naphthylalanine

<220>

<221> MOD_RES

<222> (7)

<223> Thr or Ser

<220>
 <221> MOD_RES
 <222> (8)
 <223> Ala, Ser, or Thr

<220>
 <221> MOD_RES
 <222> (9)
 <223> Asp or Glu

<220>
 <221> MOD_RES
 <222> (10)
 <223> Ala, Leu, Ile, Val, pentylglycine, or Met

<220>
 <221> MOD_RES
 <222> (11)
 <223> Ala or Ser

<220>
 <221> MOD_RES
 <222> (12)
 <223> Ala or Lys

<220>
 <221> MOD_RES
 <222> (13)
 <223> Ala or Gln

<220>
 <221> MOD_RES
 <222> (14)
 <223> Ala, Leu, Ile, pentylglycine, Val, or Met

<220>
 <221> MOD_RES
 <222> (15)
 <223> Ala or Glu

<220>
 <221> MOD_RES
 <222> (16)
 <223> Ala or Glu

<220>
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 <223> Ala or Glu

<220>
 <221> MOD_RES
 <222> (19)
 <223> Ala or Val

<220>
<221> MOD_RES
<222> (20)
<223> Ala or Arg

<220>
<221> MOD_RES
<222> (21)
<223> Ala, Leu, or Lys-NH

<220>
<221> MOD_RES
<222> (22)
<223> Lys, Arg, or not present

<220>
<221> MOD_RES
<222> (23)
<223> Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (24)
<223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
or Met

<220>
<221> MOD_RES
<222> (25)
<223> Ala, Glu, or Asp

<220>
<221> MOD_RES
<222> (26)
<223> Ala, Trp, Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (27)
<223> Ala or Leu

<220>
<221> MOD_RES
<222> (28)
<223> Lys, Asn, Lys-NH, or Ala

<220>
<221> MOD_RES
<222> (29)
<223> Asn, Lys, Arg, or Lys-NH

<220>
<221> MOD_RES

<222> (30)
 <223> Asn, Lys, Arg, Ala, or not present

<220>
 <221> MOD_RES
 <222> (31)
 <223> Gly or not present

<220>
 <221> MOD_RES
 <222> (32)
 <223> Gly or not present

<220>
 <221> MOD_RES
 <222> (33)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

<220>
 <221> MOD_RES
 <222> (34)
 <223> Ser or not present

<220>
 <221> MOD_RES
 <222> (35)
 <223> Ser or not present

<220>
 <221> MOD_RES
 <222> (36)
 <223> Gly or not present

<220>
 <221> MOD_RES
 <222> (37)
 <223> Ala or not present

<220>
 <221> MOD_RES
 <222> (38)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

<220>
 <221> MOD_RES
 <222> (39)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

<220>
 <221> MOD_RES
 <222> (40)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

<220>
 <223> May be c-term amidated

<400> 24
 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 25
 <211> 41
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> His, Arg, Tyr, Ala, Norval, Val, or Norleu

<220>
 <221> MOD_RES
 <222> (2)
 <223> Ser, Gly, Ala, or Thr

<220>
 <221> MOD_RES
 <222> (3)
 <223> Ala, Asp, or Glu

<220>
 <221> MOD_RES
 <222> (4)
 <223> Ala, Norval, Val, Norleu, or Gly

<220>
 <221> MOD_RES
 <222> (5)
 <223> Ala or Thr

<220>
 <221> MOD_RES
 <222> (6)
 <223> Phe, Tyr, or naphthylalanine

<220>
 <221> MOD_RES
 <222> (7)
 <223> Thr or Ser

<220>
 <221> MOD_RES
 <222> (8)
 <223> Ala, Ser, or Thr

<220>
 <221> MOD_RES
 <222> (9)
 <223> Ala, Norval, Val, Norleu, Asp, or Glu

<220>
 <221> MOD_RES
 <222> (10)
 <223> Ala, Leu, Ile, Val, pentylglycine, or Met

<220>
 <221> MOD_RES
 <222> (11)
 <223> Ala or Ser

<220>
 <221> MOD_RES
 <222> (12)
 <223> Ala or Lys

<220>
 <221> MOD_RES
 <222> (13)
 <223> Ala or Gln

<220>
 <221> MOD_RES
 <222> (14)
 <223> Ala, Leu, Ile, pentylglycine, Val, or Met

<220>
 <221> MOD_RES
 <222> (15)
 <223> Ala or Glu

<220>
 <221> MOD_RES
 <222> (16)
 <223> Ala or Glu

<220>
<221> MOD_RES
<222> (17)
<223> Ala or Glu

<220>
<221> MOD_RES
<222> (19)
<223> Ala or Val

<220>
<221> MOD_RES
<222> (20)
<223> Ala or Arg

<220>
<221> MOD_RES
<222> (21)
<223> Ala, Leu, or Lys-NH

<220>
<221> MOD_RES
<222> (22)
<223> Lys, Arg, or not present

<220>
<221> MOD_RES
<222> (23)
<223> Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (24)
<223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
or Met

<220>
<221> MOD_RES
<222> (25)
<223> Ala, Glu, or Asp

<220>
<221> MOD_RES
<222> (26)
<223> Ala, Trp, Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (27)
<223> Ala or Leu

<220>
<221> MOD_RES

<222> (28)
 <223> Lys, Asn, Lys-NH, or Ala

 <220>
 <221> MOD_RES
 <222> (29)
 <223> Asn, Lys, Arg, or Lys-NH

 <220>
 <221> MOD_RES
 <222> (30)
 <223> Asn, Lys, Arg, Ala, or not present

 <220>
 <221> MOD_RES
 <222> (31)
 <223> Gly or not present

 <220>
 <221> MOD_RES
 <222> (32)
 <223> Gly or not present

 <220>
 <221> MOD_RES
 <222> (33)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 N-alkylalanine, or not present

 <220>
 <221> MOD_RES
 <222> (34)
 <223> Ser or not present

 <220>
 <221> MOD_RES
 <222> (35)
 <223> Ser or not present

 <220>
 <221> MOD_RES
 <222> (36)
 <223> Gly or not present

 <220>
 <221> MOD_RES
 <222> (37)
 <223> Ala or not present

 <220>
 <221> MOD_RES
 <222> (38)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,

N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>

<221> MOD_RES

<222> (39)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>

<221> MOD_RES

<222> (40)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine,
N-alkylalanine, or not present

<220>

<221> MOD_RES

<222> (41)

<223> Ser or Tyr, preferably Ser, or not present

<220>

<223> May be c-term amidated

<400> 25

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 26

<211> 39

<212> PRT

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)

<223> His, Arg, or Tyr

<220>

<221> MOD_RES

<222> (2)

<223> Ser, Gly, Ala, or Thr

<220>
 <221> MOD_RES
 <222> (3)
 <223> Ala, Asp, or Glu

<220>
 <221> MOD_RES
 <222> (6)
 <223> Phe, Tyr, or naphthalanine

<220>
 <221> MOD_RES
 <222> (7)
 <223> Thr or Ser

<220>
 <221> MOD_RES
 <222> (8)
 <223> Ser or Thr

<220>
 <221> MOD_RES
 <222> (9)
 <223> Asp or Glu

<220>
 <221> MOD_RES
 <222> (10)
 <223> Leu, Ile, Val, pentylglycine, or Met

<220>
 <221> MOD_RES
 <222> (14)
 <223> Leu, Ile, pentylglycine, Val, or Met

<220>
 <221> MOD_RES
 <222> (22)
 <223> Phe, Tyr, or naphthalanine

<220>
 <221> MOD_RES
 <222> (23)
 <223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
 or Met

<220>
 <221> MOD_RES
 <222> (24)
 <223> Glu or Asp

<220>
 <221> MOD_RES
 <222> (25)

<223> Trp, Phe, Tyr, or naphthylalanine

<220>

<221> MOD_RES

<222> (31)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine, or
N-alkylalanine

<220>

<221> MOD_RES

<222> (36)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine, or
N-alkylalanine

<220>

<221> MOD_RES

<222> (37)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine, or
N-alkylalanine

<220>

<221> MOD_RES

<222> (38)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine, or
N-alkylalanine

<220>

<221> MOD_RES

<222> (39)

<223> Ser, Thr, or Tyr

<220>

<223> May be c-term amidated

<400> 26

Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Xaa
35

<210> 27

<211> 38

<212> PRT

<213> Artificial sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)
<223> His, Arg, or Tyr

<220>
<221> MOD_RES
<222> (2)
<223> Ser, Gly, Ala, or Thr

<220>
<221> MOD_RES
<222> (3)
<223> Ala, Asp, or Glu

<220>
<221> MOD_RES
<222> (6)
<223> Phe, Tyr, or naphthylalanine

<220>
<221> MOD_RES
<222> (7)
<223> Thr or Ser

<220>
<221> MOD_RES
<222> (8)
<223> Ser or Thr

<220>
<221> MOD_RES
<222> (9)
<223> Asp or Glu

<220>
<221> MOD_RES
<222> (10)
<223> Leu, Ile, Val, pentylglycine, or Met

<220>
<221> MOD_RES
<222> (14)
<223> Leu, Ile, pentylglycine, Val, or Met

<220>
<221> MOD_RES
<222> (22)
<223> Phe, Tyr, or naphthylalanine

<220>

<221> MOD_RES
 <222> (23)
 <223> Ile, Val, Leu, pentylglycine, tert-butylglycine,
 or Met

<220>
 <221> MOD_RES
 <222> (24)
 <223> Glu or Asp

<220>
 <221> MOD_RES
 <222> (25)
 <223> Trp, Phe, Tyr, or naphthylalanine

<220>
 <221> MOD_RES
 <222> (27)
 <223> Lys, Asn, or Lys-NH

<220>
 <221> MOD_RES
 <222> (28)
 <223> Asn, Lys, Arg, or Lys-NH

<220>
 <221> MOD_RES
 <222> (29)
 <223> Asn, Lys, Arg, or not present

<220>
 <221> MOD_RES
 <222> (32)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine, or
 N-alkylalanine

<220>
 <221> MOD_RES
 <222> (37)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine, or
 N-alkylalanine

<220>
 <221> MOD_RES
 <222> (38)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine, or
 N-alkylalanine

<220>
 <221> MOD_RES
 <222> (39)

<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-alkylglycine, N-alkylpentylglycine, or
N-alkylalanine

<220>

<221> MOD_RES

<222> (40)

<223> Ser, Thr, or Tyr

<220>

<223> May be c-term amidated

<400> 27

Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Xaa Gly Gly Xaa Ser Ser
20 25 30

Gly Ala Xaa Xaa Xaa Xaa
35

<210> 28

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 29

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 29

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 30

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 30

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
20 25

<210> 31

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 31

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 32

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 32

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 33

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 33

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 34

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 34

Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 35

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 35

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Tyr
35

<210> 36

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 36

His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 37

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (6)

<223> naphthylalanine

<220>

<223> May be c-term amidated

<400> 37

His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 38

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 38

His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 39

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 39

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 40

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 40

His Gly Glu Gly Thr Phe Thr Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 41

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 41

His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 42
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (10)
<223> pentylglycine

<220>
<223> May be c-term amidated

<400> 42
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 43
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (10)
<223> pentylglycine

<220>
<223> May be c-term amidated

<400> 43
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 44
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (14)
<223> pentylglycine

<220>
<223> May be c-term amidated

<400> 44
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 45
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (14)
<223> pentylglycine

<220>
<223> May be c-term amidated

<400> 45
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 46
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (22)
<223> naphthylalanine

<220>
<223> May be c-term amidated

<400> 46
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 47
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 47
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 48
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 48
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 49
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (23)
 <223> tertiary-butylglycine

<220>
 <223> May be c-term amidated

<400> 49
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

<210> 50
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>

<221> MOD_RES
 <222> (23)
 <223> tertiary-butylglycine

 <220>
 <223> May be c-term amidated

 <400> 50
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn Gly Gly Pro Ser
 20 25 30

 Ser Gly Ala Pro Pro Pro Ser
 35

 <210> 51
 <211> 39
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 51
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30

 Ser Gly Ala Pro Pro Pro Ser
 35

 <210> 52
 <211> 39
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 52
 His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 53
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
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<222> (31)
<223> thioproline

<220>
<221> MOD_RES
<222> (36)..(38)
<223> thioproline

<220>
<223> May be c-term amidated

<400> 53
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 54
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (36)..(38)
<223> thioproline

<220>

<223> May be c-term amidated

<400> 54

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 55

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (31)

<223> homoproline

<220>

<221> MOD_RES

<222> (36)..(38)

<223> homoproline

<220>

<223> May be c-term amidated

<400> 55

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 56

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES
<222> (36)..(38)
<223> homoproline

<220>
<223> May be c-term amidated

<400> 56
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 57
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
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<222> (31)
<223> thioproline

<220>
<221> MOD_RES
<222> (36)..(38)
<223> thioproline

<220>
<223> May be c-term amidated

<400> 57
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30
Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 58
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (31)
 <223> homoproline

<220>
 <221> MOD_RES
 <222> (36)..(38)
 <223> homoproline

<220>
 <223> May be c-term amidated

<400> 58
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
 20 25 30
 Ser Gly Ala Xaa Xaa Xaa Ser
 35

<210> 59
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (31)
 <223> N-methylalanine

<220>
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 <222> (36)..(38)
 <223> N-methylalanine

<220>
 <223> May be c-term amidated

<400> 59
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser

	20	25	30
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Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 60
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (36)..(38)
 <223> N-methylalanine

<220>
 <223> May be c-term amidated

<400> 60
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 61
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

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 <221> MOD_RES
 <222> (31)
 <223> N-methylalanine

<220>
 <221> MOD_RES
 <222> (36)..(38)
 <223> N-methylalanine

<220>
 <223> May be c-term amidated

<400> 61
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
 20 25 30
 Ser Gly Ala Xaa Xaa Xaa Ser
 35

<210> 62
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide
 <220>
 <223> May be c-term amidated

<400> 62
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

<210> 63
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
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 <220>
 <223> May be c-term amidated

<400> 63
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

<210> 64
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 64
 His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 65
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 65
 His Gly Glu Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 66
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 66
 His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 67
 <211> 28

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 67
His Gly Glu Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 68
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 68
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 69
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 69
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 70
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 70
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 71
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 71
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 72
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 72
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 73
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 73
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 74
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 74
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 75
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 75

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 76
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 76
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 77
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 77
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 78
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 78

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 79

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 79

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn
20 25

<210> 80

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 80

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 81

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 81

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 82

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 82

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
20 25

<210> 83

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 83

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 84

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 84

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 85

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 85

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 86

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 86

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro
 35

<210> 87
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 87
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro
 35

<210> 88
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 88
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro
 35

<210> 89

<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 89
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro
35

<210> 90
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 90
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala
35

<210> 91
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 91

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 92

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 92

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 93

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 93

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 94
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 94
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 95
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 95
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 96
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 96

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 97

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 97

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 98

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 98

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 99

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 99

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro
20 25 30

<210> 100

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 100

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 101

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 101

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 102

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 102

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 103

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (31)

<223> thioproline

<220>

<221> MOD_RES

<222> (36)..(38)

<223> thioproline

<220>

<223> May be c-term amidated

<400> 103

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 104

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (36)..(38)

<223> thioproline

<220>

<223> May be c-term amidated

<400> 104

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 105

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (31)

<223> N-methylalanine

<220>

<223> May be c-term amidated

<400> 105

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 106

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (31)

<223> N-methylalanine

<220>

<221> MOD_RES

<222> (36)..(37)

<223> N-methylalanine

<220>

<223> May be c-term amidated

<400> 106

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 107

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (31)

<223> homoproline

<220>

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<222> (36)..(37)

<223> homoproline

<220>

<223> May be c-term amidated

<400> 107

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 108
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (31)
<223> homoproline

<220>
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<222> (36)
<223> homoproline

<220>
<223> May be c-term amidated

<400> 108
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa
35

<210> 109
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<223> May be c-term amidated

<400> 109
Arg Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 110
<211> 30
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 110
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 111
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (6)
<223> naphthylalanine

<220>
<223> May be c-term amidated

<400> 111
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 112
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 112
His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
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<210> 113
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<223> May be c-term amidated

<400> 113
His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
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<210> 114
<211> 28
<212> PRT
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<220>
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<220>
<223> May be c-term amidated

<400> 114
His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

<210> 115
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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 <220>
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 <222> (10)
 <223> pentylglycine

 <220>
 <223> May be c-term amidated

 <400> 115
 His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 116
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (22)
 <223> naphthylalanine

 <220>
 <223> May be c-term amidated

 <400> 116
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
 20 25

 <210> 117
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <221> MOD_RES

<222> (23)
<223> tertiary-butylglycine

<220>
<223> May be c-term amidated

<400> 117
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 118
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 118
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 119
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 119
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 120
 <211> 29
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 120
 His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
 20 25

 <210> 121
 <211> 37
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
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 <222> (31)
 <223> homoproline

 <220>
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 <222> (36)..(37)
 <223> homoproline

 <220>
 <223> May be c-term amidated

 <400> 121
 His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
 20 25 30
 Ser Gly Ala Xaa Xaa
 35

 <210> 122
 <211> 28

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 122
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 123
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 123
 His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 124
 <211> 28
 <212> PRT
 <213> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 124
 His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 125
 <211> 28

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 125
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 126
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 126
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 127
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 127
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 128
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 128
 His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

 <210> 129
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 129
 His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

 <210> 130
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 130
 His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 131

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 131

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 132

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 132

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 133

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 133

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

<210> 134
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 134
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

<210> 135
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 135
 Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

<210> 136
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 136

Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 137

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (6)

<223> naphthylalanine

<220>

<223> May be c-term amidated

<400> 137

Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 138

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (6)

<223> naphthylalanine

<220>

<223> May be c-term amidated

<400> 138

Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 139
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 139
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 140
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 140
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 141
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 141

Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 142
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 142
Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 143
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 143
Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 144
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 144

Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 145

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 145

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 146

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 146

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 147

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 147

Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 148

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 148

Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 149

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (10)

<223> pentylglycine

<220>

<223> May be c-term amidated

<400> 149

Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 150
<211> 28
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (10)

<223> pentylglycine

<220>

<223> May be c-term amidated

<400> 150

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Xaa	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn
			20				25				

<210> 151

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 151

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ala	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn
			20				25				

<210> 152

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 152

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 153

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 153

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 154

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 154

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 155

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 155

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 156

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 156

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 157

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 157

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 158

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 158

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 159

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (14)

<223> pentylglycine

<220>

<223> May be c-term amidated

<400> 159

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 160

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (14)

<223> pentylglycine

<220>

<223> May be c-term amidated

<400> 160

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 161

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 161

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 162

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 162

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 163

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 163

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 164

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 164

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 165

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 165

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 166

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 166

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 167

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 167

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 168

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 168

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 169
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 169
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Ala Leu Phe Ile Glu Trp Leu Lys Asn
 20 25

 <210> 170
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
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 <220>
 <223> May be c-term amidated

 <400> 170
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
 20 25

 <210> 171
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 <213> Artificial Sequence

 <220>
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 <220>
 <223> May be c-term amidated

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 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Ala Phe Ile Glu Trp Leu Lys Asn

20

25

<210> 172

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 172

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 173

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (22)

<223> naphthylalanine

<220>

<223> May be c-term amidated

<400> 173

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn
20 25

<210> 174

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>
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 <222> (22)
 <223> naphthylalanine

 <220>
 <223> May be c-term amidated

 <400> 174
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
 20 25

 <210> 175
 <211> 28
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 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 175
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn
 20 25

 <210> 176
 <211> 28
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 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 176
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn
 20 25

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 <210> 177
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 <220>
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 <222> (23)
 <223> tertiary-butylglycine

 <220>
 <223> May be c-term amidated

 <400> 177
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
 20 25

 <210> 178
 <211> 28
 <212> PRT
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 <222> (23)
 <223> tertiary-butylglycine

 <220>
 <223> May be c-term amidated

 <400> 178
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn
 20 25

 <210> 179
 <211> 28
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<220>

<223> May be c-term amidated

<400> 179

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn
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<210> 180

<211> 28

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 180

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 181

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 181

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
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<210> 182

<211> 28

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 182

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 183

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 183

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Ala Lys Asn
20 25

<210> 184

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 184

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 185
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 185
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Ala Asn
 20 25

<210> 186
 <211> 28
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 186
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
 20 25

<210> 187
 <211> 28
 <212> PRT
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 <220>
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 <220>
 <223> May be c-term amidated

 <400> 187
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Ala

20

25

<210> 188

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 188

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 189

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 189

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 190

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 190

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 191

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 191

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 192

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 192

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 193
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 193
Ala Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
 20 25 30

Ser Gly Ala Pro
 35

<210> 194
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 194
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30

Ser Gly Ala
 35

<210> 195
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 195

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 196

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 196

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 197

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 197

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 198

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 198

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

<210> 199

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 199

His	Gly	Ala	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	

Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

<210> 200

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<223> May be c-term amidated

<400> 200

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 201
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 201
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 202
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<223> May be c-term amidated

<400> 202
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 203
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES
<222> (31)
<223> thioproline

<220>
<221> MOD_RES
<222> (36)..(38)
<223> thioproline

<220>
<223> May be c-term amidated

<400> 203
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 204
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (36)..(38)
<223> thioproline

<220>
<223> May be c-term amidated

<400> 204
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 205
<211> 37

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (31)
<223> N-methylalanine

<220>
<221> MOD_RES
<222> (36)..(37)
<223> N-methylalanine

<220>
<223> May be c-term amidated

<400> 205
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30
Ser Gly Ala Xaa Xaa
35

<210> 206
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (31)
<223> homoproline

<220>
<221> MOD_RES
<222> (36)
<223> homoproline

<220>
<223> May be c-term amidated

<400> 206
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
 20 25 30

Ser Gly Ala Xaa
 35

<210> 207
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 207
 His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30

Ser Gly Ala
 35

<210> 208
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <223> May be c-term amidated

<400> 208
 His Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
 20 25 30

<210> 209
 <211> 39
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 209
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

 <210> 210
 <211> 39
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <223> May be c-term amidated

 <400> 210
 Ala Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
 1 5 10 15
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
 20 25 30
 Ser Gly Ala Pro Pro Pro Ser
 35

 <210> 211
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic peptide

 <220>
 <221> MOD_RES
 <222> (3)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-Alkylglycine, N-alkylpentylglycine,
 or N-alklalanine

<220>
 <221> MOD_RES
 <222> (8)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
 <221> MOD_RES
 <222> (9)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
 <221> MOD_RES
 <222> (10)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
 <223> May be c-term amidated

<400> 211
 Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa
 1 5 10

<210> 212
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MOD_RES
 <222> (3)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-Alkylglycine, N-alkylpentylglycine,
 or N-alklalanine

<220>
 <223> May be c-term amidated

<400> 212
 Gly Gly Xaa Ser Ser
 1 5

<210> 213
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<223> May be c-term amidated

<400> 213
Gly Gly Xaa Ser Ser Gly
1 5

<210> 214
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
N-Alkylglycine, N-alkylpentylglycine,
or N-alklalanine

<220>
<223> May be c-term amidated

<400> 214
Gly Gly Xaa Ser Ser Gly Ala
1 5

<210> 215
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES
 <222> (3)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-Alkylglycine, N-alkylpentylglycine,
 or N-alklalanine

<220>
 <221> MOD_RES
 <222> (8)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
 <223> May be c-term amidated

<400> 215
 Gly Xaa Ser Ser Gly Ala Xaa
 1 5

<210> 216
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (3)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-Alkylglycine, N-alkylpentylglycine,
 or N-alklalanine

<220>
 <221> MOD_RES
 <222> (8)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
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 <222> (9)
 <223> Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 N-alkylglycine, N-alkylpentylglycine,
 or N-alkylalanine

<220>
 <223> May be c-term amidated

<400> 216
Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa
1 5

<210> 217
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 217
Gly Gly Xaa Ser Ser
1 5

<210> 218
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 218
Gly Gly Xaa Ser Ser Gly
1 5

<210> 219
<211> 7
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<223> May be c-term amidated

<400> 219

Gly Gly Xaa Ser Ser Gly Ala
1 5

<210> 220

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (3)

<223> Pro, homoproline, thioproline,
or N-methylalanine

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<221> MOD_RES

<222> (8)

<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>

<223> May be c-term amidated

<400> 220

Gly Gly Xaa Ser Ser Gly Ala Xaa
1 5

<210> 221

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<221> MOD_RES
<222> (8)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<221> MOD_RES
<222> (9)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<223> May be c-term amidated

<400> 221
Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa
1 5

<210> 222
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
<221> MOD_RES
<222> (8)
<223> Pro, homoproline, thioproline,
or N-methylalanine

<220>
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or N-methylalanine

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 or N-alklalanine

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